FIG.1

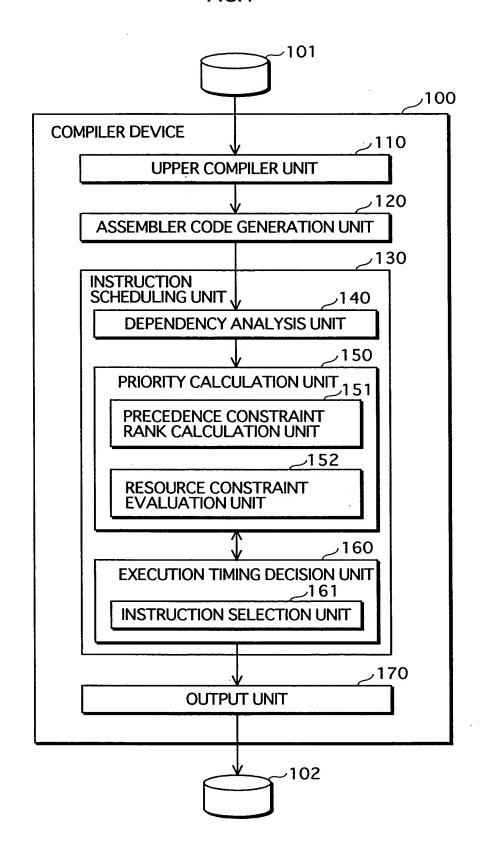
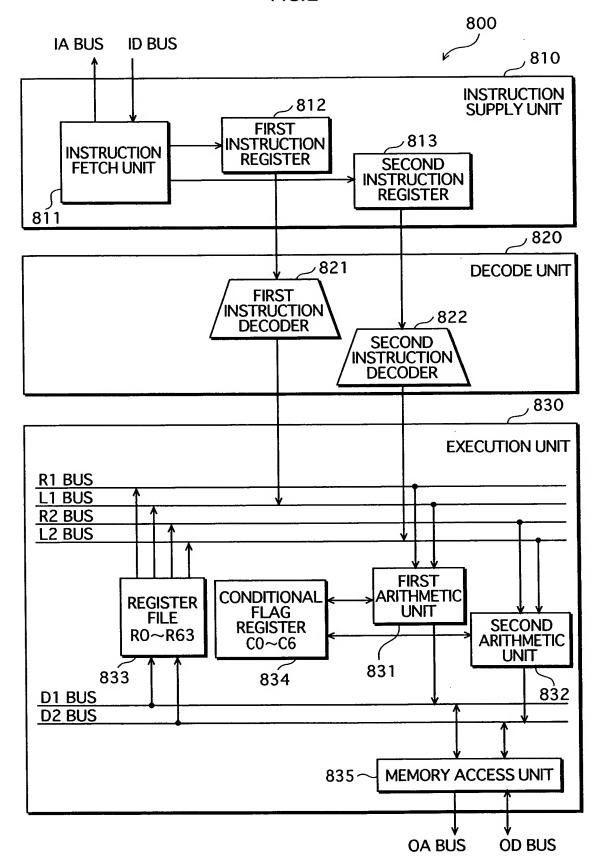


FIG.2



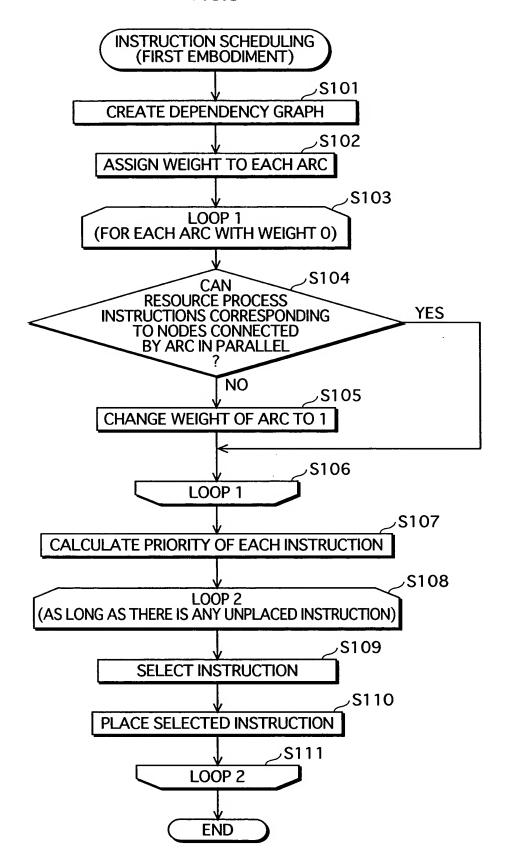
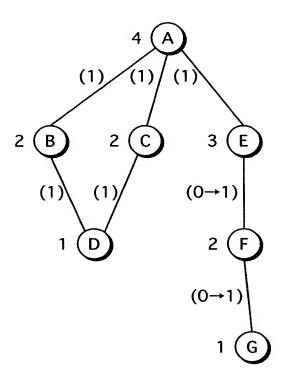
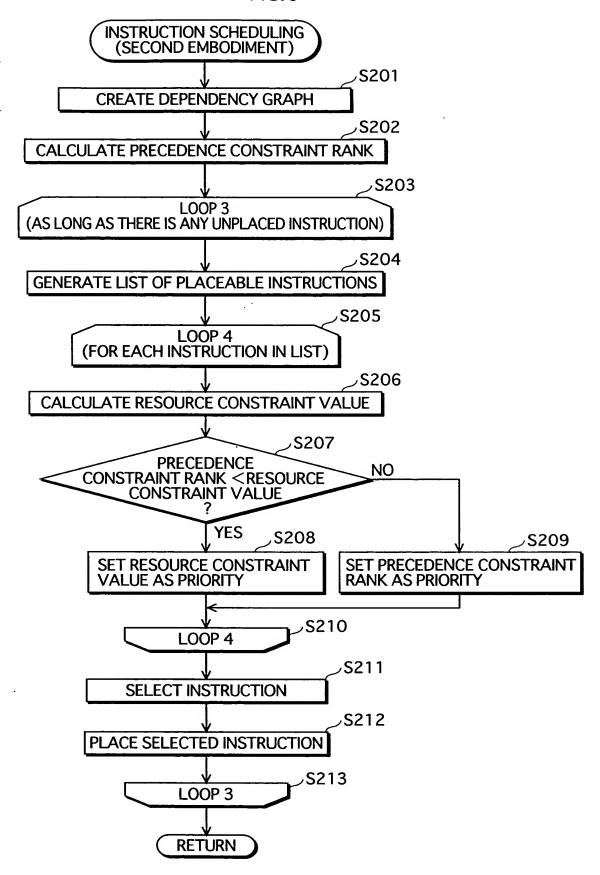


FIG.4



| 201ر | | 202 | | | 203 |
|-------------|-----|---|-----|--|--|
| CLOCK CYCLE | | INSTRUCTION 1 | | INSTRUCTION 2 | ON 2 |
| 1 | р | ro, (r10) ··· ④ (FIRST DECISION) | | energia de la compania del compania del compania de la compania del la compania de la compania del la compania de la compania de la compania del la compania de la compania del la compania | |
| 2 | st | st (r11), r0··· (E) (SECOND DECISION) add r3, r0, r1··· (B) | add | r3, r0, r1 · · · · ® | (THIRD DECISION) |
| 3 | add | add r4, r0, r2 · · · · ⓒ (FOURTH DECISION) Id | PI | r0, (r12) · · · (F) | (FIFTH DECISION) |
| 4 | or | r5, r4, r3 · · · · ① (SIXTH DECISION) Id | ld | r0, (r13) · · · · G | rO, (r13) · · · · ⑤ (SEVENTH DECISION) |

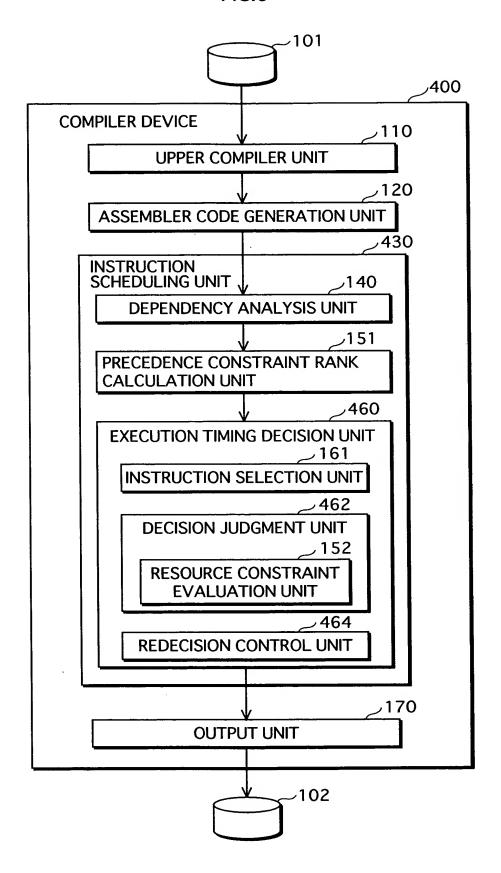


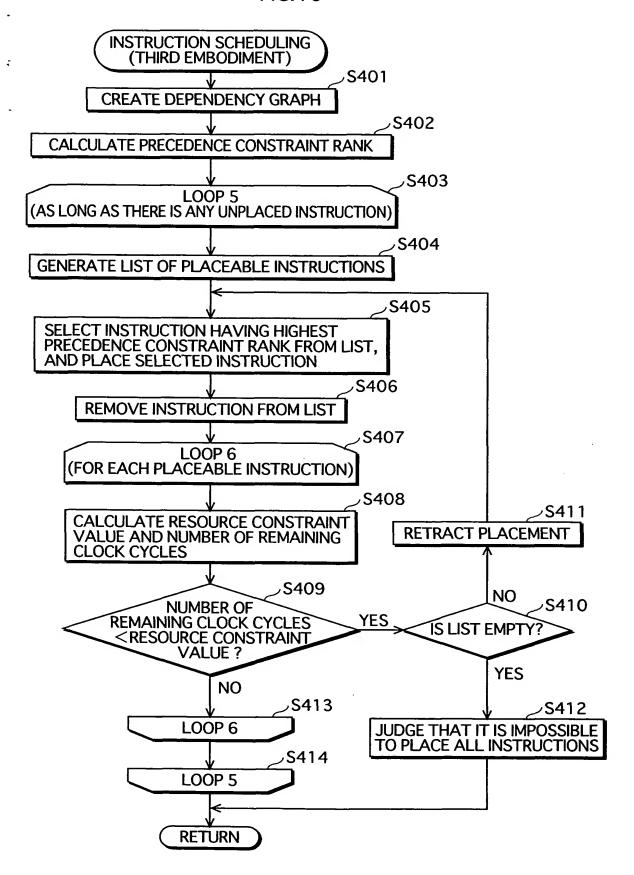
| | | , | | | | | | | |
|-------|-----------------|--|-----------|-----------|-----------|----------|-----------|-----------|----------|
| | NOIS | PRIORITY | ı | ı | 2 | ì | 1 | 2 | 1 |
| 340 | FOURTH DECISION | RESOURCE CONSTRAINT F VALUE | 1 | ı | 1 | , I | I | 2 | ı |
| | FOUR | RESOURCE CONSTRAINT PRIORITY STATE VALUE | - | 2 | PLACEABLE | UNPLACED | 2 | PLACEABLE | UNPLACED |
| | No | PRIORITY | ı | 2 | 2 | I | - | 2 | 1 |
| 330 | THIRD DECISION | RESOURCE CONSTRAINT VALUE | ı | 1.5 | 1.5 | I | - | 2 | ı |
| .7 | THIR | RESOURCE CONSTRAINT PRIORITY STATE VALUE | 1 | PLACEABLE | PLACEABLE | UNPLACED | 2 | PLACEABLE | UNPLACED |
| FIG.7 | NOIS | PRIORITY | ı | 2 | 2 | l | 3 | i | 1 |
| 320 | SECOND DECISION | RESOURCE CONSTRAINT VALUE | ı | 1.5 | 1.5 | ı | 3 | I | ı |
| | SECO | PLACEMENT STATE | 1 | PLACEABLE | PLACEABLE | UNPLACED | PLACEABLE | UNPLACED | UNPLACED |
| | NO | PRIORITY | 4 | ı | - | - | - | I | - |
| 310 | FIRST DECISI | RESOURCE CONSTRAINT VALUE | 4 | l | ı | 1 | _ | - | ł |
| | FIRS | PLACEMENT STATE | PLACEABLE | UNPLACED | UNPLACED | UNPLACED | UNPLACED | UNPLACED | UNPLACED |
| 303 | NT RANK ENCE | PRECEDI CONSTRAIN | 3 | 2 | 2 | 1 | 1 | 1 | - |
| 302 | | RESOL | Σ | A | A | A | Σ | Σ | Σ |
| 301 | CTION | NSTRU | A | В | C | Q | E | Ľ. | 9 |

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| - | | | | | | | | | |
|-------|----------------------|--|----------|---|---|------------|----------|-----------|-----------|
| 380 | MENT | PLACE RESI | 1 | 2 | က | 4 | 2 | က | 4 |
| . 0 | NON | PRIORITY |] | 1 | 1 | İ | l | _ | 1 |
| 370 | SEVENTH DECISION | RESOURCE CONSTRAINT PRIORITY VALUE | - | 1 | I | l | I | l | 1 |
| | SEVE | PLACEMENT STATE | 1 | 7 | 8 | 4 | 5 | 3 | PLACEABLE |
| 360 | Z | PRIORITY | l | _ | I | | ļ | I | 1 |
| FIG.8 | SIXTH DECISION | RESOURCE CONSTRAINT VALUE | 1 | 1 | I | 0.5 | • | I | 1 |
| FIC | SIS | PLACEMENT STATE | 1 | 2 | င | PLACEABLE | 2 | က | PLACEABLE |
| 350 | N. | RESOURCE CONSTRAINT PRIORITY VALUE | l | l | ı | - - | I | 7 | l |
| m d | FIFTH DECISION | RESOURCE CONSTRAINT VALUE | l. | l | l | 0.5 | l | 5 | |
| 303 | <u>H</u> | PLACEMENT STATE | 1 | 2 | က | PLACEABLE | 2 | PLACEABLE | UNPLACED |
| 1 302 | SAINT SENCE IK | PRECED TZNOS TAA | 3 | 7 | 2 | - | - | - | - |
| 301 | JRCE | RESOL | M | A | А | A | Σ | Σ | Σ |
| | ИОІТЭ | USTRUI | ٧ | 8 | ပ | ۵ | ш | ъ | ဟ |





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|--------|--------------------------------|---|------------------|------------------|------------------------|----------|------------------|----------|----------|
| | N() | RESOURCE CONSTRAINT VALUE | l | I | 1 | ì | l | 2 | İ |
| 540 | THIRD DECISION (REDECISION) | NUMBER OF REMAINING CYCLES | 1 | ŧ | 2 | I | _ | 2 | _ |
| | THIR (RE | LACEMEN | 1 | 2 | PLACEMENT RETRACTED | UNPLACED | PLACEABLE (2) | UNPLACED | UNPLACED |
| | | RESOURCE CONSTRAINT VALUE | I | - | l | 0.5 | 3 | - | ı |
| 530 | THIRD DECISION | NUMBER RESOURCE POPULE CONSTRAINT CYCLES | I | | 1 | 7 | 2 | _ | _ |
| 11 | THIR | NUMBER RESOURCE PLACEMENT OF CONSTRAINT STATE RICCYCLES VALUE | 1 | 2 | PLACEABLE (2) | UNPLACED | PLACEABLE | UNPLACED | UNPLACED |
| FIG.11 | NOIS | Resource Constraint Value | ı | I | 1 | ı | 3 | l | - |
| 520 | SECOND DECISION | NUMBER OF REMAINING CYCLES | l | 1 | 3 | I | 3 | | _ |
| | SECO | LACEMEN | - | PLACEABLE (2) | PLACEABLE | UNPLACED | PLACEABLE | UNPLACED | UNPLACED |
| : | NO | RESOURCE POWSTRAINT NG VALUE | 1 | 1.5 | 1.5 | l | 3 | _ | - |
| 510 | FIRST DECISION | NUMBER OF REMAINING CYCLES | 1 | 3 | 3 | l | 3 | _ | _ |
| | FIRS | PLACEMENT STATE | PLACEABLE (1) | UNPLACED | UNPLACED | UNPLACED | UNPLACED | UNPLACED | UNPLACED |
| 503 | 1T RANK ENCE | PRECED PRECED | 3 | 2 | 2 (| - | 1 | 1 | 1 |
| 505 | IBCE | RESOL | Σ | A | Α | ٧ | Σ | Σ | Σ |
| 501 | NOITO | NSTRU | ٧ | 89 | ၁ | О | Ε | 4 | 9 |
| | | | | | | | | | |

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| 590 | MENT JLT | PLACE | _ | 2 | က | 4 | 2 | ည | 4 |
|--------|------------------|---|---|---|------------------|---------------|---|------------------|------------------|
| | NOISI | RESOURCE CONSTRAINT VALUE | - | I | I | - | | _ | 1 |
| 580 | SEVENTH DECISION | NUMBER OF SEMAINING CYCLES | l | _ | l | I | _ | _ | ı |
| | SEVE | ACEMENT STATE | ı | 7 | 3 | 4 | 2 | 3 | PLACEABLE (4) |
| | NO | RESOURCE CONSTRAINT VALUE | 1 | - | l | _ | - | - | - |
| 270 | SIXTH DECISION | NUMBER RESOURCE PL OF CONSTRAINT CYCLES VALUE | I | I | ŀ | 1 | _ | _ | - |
| 12 | SIXT | ACEMEN STATE | | 2 | 3 | 4 | 2 | PLACEABLE (3) | UNPLACED |
| FIG.12 | NO | RESOURCE CONSTRAINT VALUE | I | ı | 1 | - | ı | 2 | ı |
| 260 | FIFTH DECISION | NUMBER RESOURCE OF CONSTRAINT PLACE VALUE | ı | 1 | I | - | ı | 2 | l |
| | FIFT | AUT PLACEMENT STATE | _ | 2 | 3 | PLACEABLE (4) | 2 | PLACEABLE | UNPLACED |
| | NOIS | RESOUR CONSTR VALU | ı | I | I | 0.5 | 1 | 2 | ı |
| 550 | FOURTH DECISION | NUMBER OF REMAINING CYCLES | I | l | 1 | 1 | - | 2 | - |
| : | FOUR | PLACEMENT STATE | - | 2 | PLACEABLE (3) | UNPLACED | 2 | PLACEABLE | UNPLACED |
| 503 | IT RAUK ENCE | PRECED NATRAIN | 3 | 2 | 2 | - | - | | |
| 502 | IBCE | RESOL | Σ | ∢ | 4 | A | Σ | Σ | Σ |
| 501 | NOITO | INSTRU | ٧ | В | ပ | ٥ | Ш | Щ | 9 |

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| 601 | | | ,602 | | | ,603 |
|-------------|-----|----------------------------|----------------------|----|---------------------|-------------------------------------|
| CLOCK CYCLE | | INSTRUCTION 1 | ON 1 | | INSTRUCTION 2 | 10N 2 |
| - | P | r0, (r10) · · · · ④ | (FIRST DECISION) | | | |
| 2 | add | add r3, r0, r1 · · · · (B) | (SECOND DECISION) st | st | (r11), r0····(E) | (THIRD DECISION) |
| ന | add | add r4, r0, r2 · · · © | (FOURTH DECISION) Id | р | r0, (r12) · · · (Ē) | (SIXTH DECISION) |
| 4 | or | r5, r4, r3 · · · (i) | (FIFTH DECISION) Id | Pl | r0, (r13) · · · · © | r0, (r13) ···· ⑥ (SEVENTH DECISION) |

FIG.14

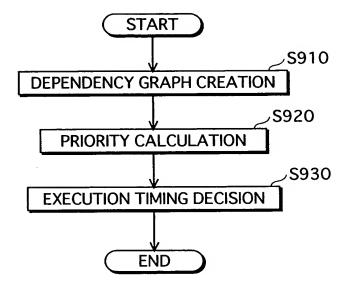


FIG.15

| ld | r0, (r10) | \cdots (A) |
|-----|------------|---------------------------------------|
| add | r3, r0, r1 | \cdots B |
| add | r4, r0, r2 | \cdots © |
| or | r5, r4, r3 | \cdots ① |
| st | (r11), r0 | · · · · E |
| ld | r0, (r12) | · · · · (F) |
| ld | r0, (r13) | · · · · · · · · · · · · · · · · · · · |

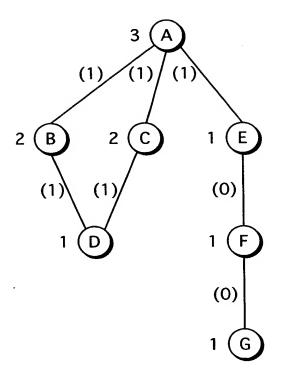


FIG 17

| 901 | | | 200 | : | 6 | 903 |
|-------------|-----|----------------------------|---|-----|---------------------|------------------|
| CLOCK CYCLE | | INSTRUCTION 1 | 10N 1 | | INSTRUCTION 2 | N 2 |
| 1 | ρĮ | r0, (r10) ···· ♠ | (FIRST DECISION) | | • | |
| 2 | add | add r3, r0, r1 · · · · · B | (SECOND DECISION) add r4, r0 r2 · · · © | add | r4, r0 r2 · · · · © | (THIRD DECISION) |
| 3 | or | r5, r4, r3 · · · ① | (FOURTH DECISION) st | | (r11), r0····(E) | (FIFTH DECISION) |
| 4 | pl | r0, (r12) ···· (E) | (SIXTH DECISION) | | - | |
| 5 | pl | r0, (r13) · · · · © | ···· (G) (SEVENTH DECISION) | | | |

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